

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **FOUR SAMPLE CALCULATION OF SENSOR ARRAY INDUCED PHASE ANGLE** the specification of which *is attached herewith*.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Terry J. Anderson	Reg. No.	24,271
Gerald L. Lett		24,509
Walter G. Sutcliff		24,914
Michael H. Wallach		27,406
Karl J. Hoch, Jr.		34,181
Scot R. Hewitt		35,191
Carmen B. Patti		26,784
Robert J. Brill		36,760
Patent Agent: Joseph S. Hanasz		P-54,720

Patti & Brill, LLC Customer Number 32205

Full name of sole inventor: David B. Hall

Inventor's  
signature David B. Hall Date July 7, 2003

Residence: 5165 Finehill Avenue  
La Crescenta, CA 91214-1206

Citizenship: U.S.A.

Post Office Address:

All written communications are to be addressed to:

Robert J. Brill  
Patti & Brill, LLC  
Customer Number 32205

**RECORDATION FORM COVER SHEET Patent and Trademark Office**  
**PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

Name of conveying party(ies):

David B. Hall

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of Conveyance:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger         |
| <input type="checkbox"/> Security Agreement    | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____           |   |

Execution Date(s): 7/7/2003

2. Name and address of receiving party(ies):

Name: Northrop Grumman Corporation

Address: 21240 Burbank Boulevard  
Woodland Hills, CA 91367-6675

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is (are): 7/7/2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Robert J. Brill  
Patti & Brill, LLC  
Customer Number 32205

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.4): ..... \$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account

Docket No.: NGC-144/000169-199

8. Deposit account number: 50-1941

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Robert J. Brill  
Name of Person Signing  
Reg. No. 36,760

  
Signature

July 9, 2003

Date

**Do not detach this portion**

Mail documents to be recorded with required cover sheet information to:

**Commissioner for Patents  
Mail Stop Assignments  
P. O. Box 1450  
Alexandria, VA 22313-1450**